

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/015694 A2**

(51) International Patent Classification<sup>7</sup>: **H01R 13/629**

(21) International Application Number:  
PCT/EP2004/051354

(22) International Filing Date: 5 July 2004 (05.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
1023937 17 July 2003 (17.07.2003) NL

(71) Applicant (for all designated States except US): FCI  
[FR/FR]; 145/147 rue Yves Le Coz, F-78000 Versailles  
(FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GABRIELSSON,  
Per, Georg [SE/SE]; Snarvindevagen 271, S-165 74 Has-  
selby (SE). VERREYDT, Bart, Theo, Maria [BE/BE];  
Bremstraat 11, B-1981 Hofstade/Zemst (BE).

(74) Agents: METMAN, Karel, Johannes et al.; De Vries  
& Metman, Patent Department, Overschiestraat 180,  
NL-1062 XK Amsterdam (NL).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

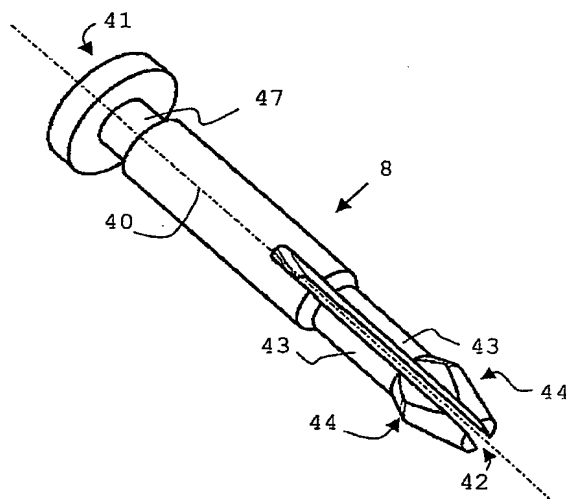
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

[Continued on next page]

(54) Title: LOCKING ELEMENT



(57) Abstract: The invention relates to a locking element (8) for locking and unlocking a cable connector and a counterpart, said locking element (8) extending along a longitudinal axis (40) between a rear side (41) and a mating side (42). At the mating side (42) two or more resilient beams (43) extend substantially parallel to the longitudinal axis (40) and contain one or more locking structures (44) comprising an insertion surface and a locking surface building an angle with the longitudinal axis (40). The insertion surface and locking surface have an inclined orientation with respect to the longitudinal axis (40) wherein the angle of the locking surface is larger than the angle of the insertion surface but substantially smaller than 90 degrees. The invention further relates to a connector system wherein one or more of these locking elements (8) are applied to connect a cable connector and a board connector.



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*